



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/725,432	12/03/2003	Kyoungheon Yi	Q76052	5323
23373 7590 08/14/2007 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037			EXAMINER BAYARD, DJENANE M	
			ART UNIT 2141	PAPER NUMBER
			MAIL DATE 08/14/2007	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/725,432	<b>Applicant(s)</b> YI ET AL.	
	<b>Examiner</b> Djenane M. Bayard	<b>Art Unit</b> 2141	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 03 December 2003.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-20 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent

Application No. 2003/0009537 to Wang et al.

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention “by another,” or by an appropriate showing under 37 CFR 1.131.

- a. As per claim 1, Wang et al teaches a user interface conversion system comprising a gateway wherein an integrated user interface is generated based on neutral user interfaces of devices residing on a home network (See page 9, paragraph [0113], page 15, paragraph [0169] and page 19, paragraph [0200], *generation of a top-level network user interface description for the browser default page that it renders to generate the top-level user control GUI*) and

Art Unit: 2141

converted into a specific user interface suitable for a specific client of a user (See page 26, paragraph [0287], *customized home network top level GUI can be accommodated using XSL, or the gateway device may generate different versions*).

b. As per claim 2, Wang et al teaches the claimed invention as described above.

Furthermore, Wang et al teaches the gateway comprising: a device collection unit for collecting the devices including the neutral user interfaces residing on the home network (See page 9, paragraph [0113]; a device database for storing information on the devices collected by the device collection unit (See page 20, paragraph [0209]; an integrated user interface generator for generating the integrated user interface based on the information on the devices stored in the device database (See page 20, paragraph [0209]), ; and a user interface conversion unit for converting the integrated user interface generated from the integrated user interface generator into the specific user interface suitable for the specific client of the user (See page 26, paragraph [0287]).

c. As per claim 3, Wang et al teaches the claimed invention as describe above.

Furthermore, Wang et al teaches the gateway further comprising a protocol unit that supports a protocol for searching for a one device residing on the home network (See page 16, paragraph [0182] and page 19, paragraph [0200])

d. As per claim 6, Wang et al teaches a user interface conversion system supporting various devices, comprising: a control device for controlling predetermined devices residing on a home

network (See page 26, paragraph [0288], *the remote user can access and control the home network device*); and a gateway for generating an integrated user interface based on neutral user interfaces of the devices residing on the home network at the request of a user for controlling the devices (See page 9, paragraph [0113], page 15, paragraph [0169] and page 19, paragraph [0200], *generation of a top-level network user interface description for the browser default page that it renders to generate the top-level user control GUI*) and converting the generated integrated user interface into a specific user interface supported in a specific client of the user (See page 26, paragraph [0287-0288], *customized home network top level GUI can be accommodated using XSL, or the gateway device may generate different versions*).

e. As per claims 10 and 17, Wang et al teaches a user interface conversion method supporting various devices, comprising the steps of: (a) requesting, by a user, for a user interface supported in a user's own client (See page 26, paragraph [0287]); (b) transmitting neutral user interfaces collected at the request of the user for the user interface (See page 26, paragraph [0293], *the process is initiated by user request and Remote Interface generator in the home network gateway device generates the directory page*); (c) generating an integrated user interface based on the transmitted neutral user interfaces ; (d) converting the integrated user interface into a specific user interface supported in the client of the user (See page 26, paragraph [0287-0288] *customized home network top level GUI can be accommodated using XSL, or the gateway device may generate different versions*); (e) transmitting the converted specific user interface to the client of the user (See page 26, paragraph [0287-0288]); (f) displaying the integrated user interface converted into the specific user interface on the client of the user (See page 27,

Art Unit: 2141

paragraph [0294], *Remote access device displays the home network directory home page for user interaction*); (g) selecting a desired device from the integrated user interface displayed on the client (See page 27, paragraph [0295]; and (h) controlling the selected device (See page 27, paragraph [095-0296]).

f. As per claims 11 and 18, Wang et al teaches the claimed invention as described above. Furthermore, Wang et al teaches wherein step (b) further comprises the steps of: requesting an integrated user interface generator to transmit the neutral user interfaces at the request of the user, by a user interface conversion unit (See page 26, paragraph [0287-0288, 0293]; requesting a device collection unit to transmit the neutral user interfaces collected therein, by the integrated user interface generator; and retrieving the neutral user interfaces collected in a device database, by the device collection unit (See page 26, paragraph [0279, 0288 and 0293]).

g. As per claims 12 and 19, Wang et al teaches the claimed invention as described above. Furthermore, Wang et al teaches wherein step (g) further comprises the steps of: requesting a control device to transmit the neutral user interfaces of the devices selected by the user, by a user interface conversion unit; transmitting the requested neutral user interfaces to a user interface generator, by the control device (See page 26, paragraph [0287]; generating the integrated user interface based on the transmitted neutral user interfaces and transmitting the generated user interface to the user interface conversion unit, by the user interface generator; converting the integrated user interface transmitted from the user interface conversion unit into the specific user interface supported in the client of the user; and transmitting the converted specific user interface

Art Unit: 2141

to the client of the user (See page 26, paragraph [0287-0288]).

h. As per claims 7 and 14, Wang et al teaches a user interface conversion method supporting devices, comprising the steps of: collecting the devices that include neutral user interfaces and reside on a home network (See page 16, paragraph [0180 and 0182]; extracting and storing information about the collected devices (See page 16, paragraph [0182], *reads the actual in use Ip address value, and builds a complete list of the IP addresses devices*); generating an integrated user interface based on the stored information about the devices (See pages 16 and 17, paragraph [0183]; and converting the generated user interface into a specific user interface supported in a client of a user (See page 26, paragraph [0287], *customized home network top level GUI can be accommodated using XSL, or the gateway device may generate different versions*).

i. As per claims 4, 8 and 15, Wang et al teaches the claimed invention as described above. Furthermore, Wang et al teaches wherein the information on the devices stored in the device database is meta information on the devices and URL information for accessing the neutral user interfaces (See page 16, paragraph [0182-183]).

j. As per claims 5, 9, 13, 16 and 20, Wang et al teaches the claimed invention as described above. Furthermore, Wang et al teaches wherein the integrated user interface is described with the neutral user interfaces, wherein the integrated user interface is converted into at least the specific user interface of a plurality of specific user interfaces (See page 26, paragraph [0287]).

***Conclusion***

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Patent NO. 6,615,088 to Myer et al teaches a system and method of device interface configuration for a control system.

U.S. Patent Application No. 2005/0267935 to Ghandi et al teaches a general programmatic interface-to-network messaging adapter that exposes a suitable object integration interface or application programming interface to applications on a controller device and sends network data messages to invoke services or query status of a controlled device.

U.S. Patent Application No. 2002/0129096 to Mansour et al teaches platform independent distributed user interface client architecture.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Djenane M. Bayard whose telephone number is (571) 272-3878. The examiner can normally be reached on Monday- Friday 5:30 AM- 3:00 PM..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rupal Dharia can be reached on (571) 272-3880. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.




Art Unit: 2141

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Djenane Bayard

Patent Examiner

  
RUPAL DHARIA  
SUPERVISORY PATENT EXAMINER